AT900A

Insulated Thermal Conductive Tape

LiPOLY AT900A is a thermally conductive tape. With a fiberglass reinforced layer and a thermal conductivity of 0.9 W/m*K this product is designed for applications where additional durability is needed. AT900A can be provided in either standard sheets or custom-die cuts.

FEATURES

- / Thermal conductivity:0.9 W/m*K
- / Excellent adhesive properties
- / Designed for manufacture
- / Excellent long term reliability
- / Fiberglass reinforced layer

TYPICAL APPLICATION

- / Automotive electronics
- / Telecommunications
- / LED light bar & LED lamp
- / Between any heat-generating
- component and heat sink
- / 5G base station & infrastructure
- / EV electric vehicle

SPECIFICATIONS

/ Roll form / Sheet form / Die-cut parts

PROPERTY AT900A UNIT TEST METHOD White Color Visual Resin base Acrylic Reinforced layer Fiberglass _ _ Thickness 0.15 0.25 ASTM D374 mm Density 1.6 1.6 ASTM D792 g/cm³ Application temperature -60~120 -60~120 °C Short time temp. @30sec 200 200 °C ROHS Compliant Compliant _ ADHESION Initial tack 10 PSTC-6 8 cm Lap shear strength 60 60 **ASTM D1002** N/cm² 94 Die shear strength@25°C 107 _ N/cm² N/cm² Die shear strength@80°C 70 70 -Holding power 1kg @25°C >10000 >10000 PSTC-7 min Holding power 1kg @80°C >10000 >10000 PSTC-7 min 90° Peeling strength @ 25°C, 72 hrs >10 >12 **ASTM D3330** N/inch 90° Peeling strength @ Thermal aging >14 80°C 1000 hrs N/inch >20 90° Peeling strength @ HAST >20 >25 85°C/85%RH 1000 hrs N/inch 90° Peeling strength @ Thermal cycling >15 >20 -40°C~120°C 500 cycles N/inch ELECTRICAL Dielectric breakdown ΚV 2 3 ASTM D149 >1010 >1010 Surface resistivity ASTM D257 Ohm Volume resistivity >1010 >1010 ASTM D257 Ohm-m THERMAL Thermal conductivity 0.9 0.9 **ASTM D5470** W/m*K Thermal impedance@5psi 0.87 1.15 **ASTM D5470** °C-in²/W Thermal impedance@10psi 0.85 1.14 **ASTM D5470** °C-in²/W °C-in²/W Thermal impedance@15psi 1.12 **ASTM D5470** 0.82

Note: All specifications provided by LiPOLY are subject to change without notice. The test methods used by LIPOLY are based on the TIM Tester method and ASTM D5470 test method. These test methods are used as the definition standards for LIPOLY. Property values provided in this document are not for product specifications or guaranteed. This document does not guarantee the performance and quality required for the purchaser's specific purpose. The product ranker the performance of the product targets' specific ourpose. The product ranker the performance of the product and estimate the performance and quality required for the purchaser method are used as the definition standards for LIPOLY. LIPOLY makes no warranty as to the suitability, merchantability, or non-infringement of any LIPOLY material or product for any specific or general uses. LIPOLY shall not be liable for incidental orconsequential damages of any kind. All LIPOLY products are sold in accordance with the LIPOLY Terms and Conditions in being on the or of the ord user. All rights reserved, including LIPOLY trademarks or registered trademarks of LIPOLY or its affiliates. Statements concerning possible or suggested uses made herein shall not be relied upon or be constructed as a guaranty of patent infringement. Copyright 2024 LIPOLY.



